

Name: _____

at1113exam: Expand, factor, and solve quadratics (v330)

1. Expand the following expression into standard form.

$$(2x - 9)(2x + 9)$$

2. Expand the following expression into standard form.

$$(5x - 4)^2$$

3. Expand the following expression into standard form.

$$(5x - 6)(4x - 3)$$

4. Solve the equation.

$$(9x + 8)(3x + 7) = 0$$

5. Solve the equation with factoring by grouping.

$$8x^2 + 10x + 12x + 15 = 0$$

6. Solve the equation.

$$7x^2 - 18x + 10 = 4x^2 - 2x + 5$$

7. Factor the expression.

$$25x^2 - 9$$

8. Factor the expression.

$$x^2 + 8x + 12$$